

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8	ADSL with EP-A-O "795" 984DSL with standard  "5519731".pn. "5673290".pn. "5917809".pn. "5742527".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB  US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR  OR	ON  ON	2005/01/26 16:51  2005/01/26 12:05
S2	1	"5519731".PN.	USPAT; USOCR	OR	ON	2005/01/26 16:26
S3	21	(multi adj standard) same modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:56
S4	7	(multi adj standard) same modem and dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:57
S5	0	S3 and decinat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:41
S6	8018	dsl and modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:42
S7	5711	dsl with modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:42
S8	7	S3 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:48

S9	26	"795984"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:49
S10	96	ADSL with vdSL with standard	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:40
S11	20	(multi adj standard) and modem and dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:37
S12	73	(multi adj (standard or mode)) and modem and dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 16:58
S13	58	(multi adj mode) and modem and dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 17:00
S14	2	"2048" and "4096" and "4.3125" and vdsl and adsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 17:02
S15	26	"2048" and "4.3125" and vdsl and adsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 17:03
S16	137	decimator and (IFFT or (inverse adj fast adj fourier adj transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 17:14

S17	23	decimator with (IFFT or (inverse adj fast adj fourier adj transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 17:15
S18	28	decimator same (IFFT or (inverse adj fast adj fourier adj transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:27
S19	24	universal adj ((digital adj subscriber adj line) or DSL)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:39
S20	20	universal adj ((digital adj subscriber adj line) or DSL) and (IFFT or (inverse adj fast adj fourier adj transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:29
S21	1	radix with adsl with modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:40
S22	1	radix same adsl same modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:40
S23	1	radix with adsl same modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:41
S24	9	radix and adsl same modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:41

S25	24	radix and adsl and modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:42
S26	87	radix with IFFT	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:42
S27	3	selectable with IFFT	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 18:42
S28	217	adsl with vdsl with modem	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/26 19:18
S29	73	(multi adj (standard or mode)) and modem and dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:37
S30	0	ADSL with vdSL with "2048" with "4.3125" with "128"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:41
S31	0	ADSL same vdSL same "2048" same "4.3125" same "128"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:41
S32	24	ADSL and vdSL and "2048" and "4. 3125" and "128"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 09:43

S33	137	(IFFT or (inverse adj fast adj fourier adj transform)) and decimator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:57
S34	1	S32 and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:55
S35	23	(IFFT or (inverse adj fast adj fourier adj transform)) with decimator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 06:57
S36	73	375/217	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:04
S37	0	S32 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:04
S38	4507	375/222	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:09
S39	8	S32 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:10
S40	2338	375/260	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:13

S41	9	S32 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:13
S42	1720	375/261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:13
S43	1	S32 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:13
S44	863	375/298	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:13
S45	0	S32 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:14
S46	2392	455/557	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:14
S47	0	S32 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S48	0	713/358	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22

S49	1026	370/203	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S50	0	S32 and S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S51	1093	370/206	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S52	0	S32 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S53	881	370/210	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S54	3	S32 and S53	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 07:22
S55	12	ADSL and vdSL and "2048" and "4.3125" and "128" and (FDE or (frequency adj domain adj equalizer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 09:59
S56	263	ADSL and (FDE or (frequency adj domain adj equalizer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 10:25

S57	7017	(FDE or (frequency adj domain adj equalizer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 10:26
S58	1	radio with frequency with canceller with dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 10:27
S59	11	radio same frequency same canceller and dsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 10:28
S60	1	radio same frequency same canceller and dsl and IFFT	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 10:28
S61	7	radio same frequency same canceller and IFFT	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/27 10:28





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### [PDF] DESIGN OF A DMT-BASED BASEBAND TRANSCEIVER FOR VERY-HIGH-SPEED ...

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... Table 1: Parameters in ETSI **VDSL** standard ... of Sub-carrier 256, 512, 1024, **2048**, **4096**  
Cyclic Prefix ... 80, 160, 320, 640 Sub-carrier Spacing **4.3125** kHz Constellation ...

[www.ap-asic.org/2002/6C-5.pdf](http://www.ap-asic.org/2002/6C-5.pdf) - [Similar pages](#)

### [PDF] ETSI TM6 TD13 Edinburgh Sept 20-24, 1999

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... 8192 (**4096**) 512 FFT Size **VDSL** (default) **ADSL** 1.3 MHz (650 kHz) ... Excess bandwidth **4.3125** kHz **4.3125** kHz Tone width ... Cyclic ext length **4096** (**2048**) 256 # of tones ...

[www.stanford.edu/class/ee379c/additional/TD13.pdf](http://www.stanford.edu/class/ee379c/additional/TD13.pdf) - [Similar pages](#)

### [PDF] Scalable Multi-mode **VDSL** (DMT option) for EFM-Cu

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... (MHz) 2 **4096** 3 **2048** 4 1024 ... It is a DMT-based system like **ADSL** and supports 256-FFT size • The tone spacing ( $\Delta f = 4.3125$  kHz) is the same as in **ADSL** ...

[www.ieee802.org/3/efm/public/nov01/del-toso\\_1\\_1101.pdf](http://www.ieee802.org/3/efm/public/nov01/del-toso_1_1101.pdf) - [Similar pages](#)

### [PDF] DMT Based **VDSL** Modem Implementation Using TMS320C64x

File Format: PDF/Adobe Acrobat

... n . The frequency spacing between two sub- carriers is fixed to **4.3125** kHz. ... 512 11  
221  $\mu$ s 95.25 % 1024 8 230  $\mu$ s 99.1 % **2048** 5 227  $\mu$ s 97.8 % **4096** 3 224 ...

[doi.ieeeecs.org/10.1109/ISCC.2001.935438](http://doi.ieeeecs.org/10.1109/ISCC.2001.935438) - [Similar pages](#)

### [doc] Choose Wisely Between QAM and DMT for **VDSL**

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... 넓은 범위의 **VDSL** 스펙트럼에서 **4096**의 톤을 ... DMT-**VDSL** 칩 제공업체는 **2048**  
톤을 구현하는 ... 는 전체 채널 또는 밴드를 **4.3125** kHz의 ...

[www.semiconnet.co.kr/dataroom/.%5Cupfiles%5Cdocs/164\\_03-07-인파니언.doc](http://www.semiconnet.co.kr/dataroom/.%5Cupfiles%5Cdocs/164_03-07-인파니언.doc) - [Similar pages](#)

### [PDF] Το φυσικό στρώμα DSL

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... από τις επι έρους τεχνολογίες x-DSL: ο ... υποκανάλια, bins •

Το κάθε bin έχει εύρος ζώνης **4.3125** KHz ...

[www.telecom.ntua.gr/ees/downloads/tlta/DSL\\_supplement\\_2.pdf](http://www.telecom.ntua.gr/ees/downloads/tlta/DSL_supplement_2.pdf) - [Similar pages](#)

### [PDF] Block Turbo Codes for Multicarrier Local Loop Transmission.

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... The choice of the constellation (2 QAM to **2048** QAM) is given by ... 5 ). The maximum number of carrier is **4096** and the distance between carriers is **4.3125** kHz ...

[www.lis.inpg.fr/pages\\_perso/brossier/publications/BCHens1.pdf](http://www.lis.inpg.fr/pages_perso/brossier/publications/BCHens1.pdf) - Supplemental Result - [Similar pages](#)

### [PDF] A rank-reduced LMMSE canceller for narrowband interference ...

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... However, the usually high SNR for many DSL applications may require a ... for an OFDM system with subcarriers ( FFT size **4096**) in the DMT-**VDSL** scenario in ...

[xdsl.fw.at/docs/papers/NiEtAl\\_2003\\_TCOM\\_ReducedRank.pdf](http://xdsl.fw.at/docs/papers/NiEtAl_2003_TCOM_ReducedRank.pdf) - [Similar pages](#)

### [PPT] Signal-to-Noise Ratio

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... 8192 (**4096**). 512. (I)FFT Size. **4096** (**2048**). 256. # of sub-carriers. ... Excess bandwidth. **4.3125** kHz. **4.3125** kHz. Tone width. **VDSL** (default). **ADSL**. DMT for **ADSL** and ...

[codelab.chonbuk.ac.kr/a/sp/Zipper\\_DMT.ppt](#) - Supplemental Result - [Similar pages](#)

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... 넓은 범위의 **VDSL** 스펙트럼에 서 **4096**개의 톤을 ... 위해, DMT- **VDSL** 칩 제공업체는 **2048**개의 톤을 ... 전체 채널 또는 대역을 **4.3125kHz**의 ...

[www.elecparts.co.kr/main\\_text/7sp\\_re.asp](#) - 37k - Supplemental Result - [Cached](#) - [Similar pages](#)

[PDF] [SIGNAL PROCESSOR IMPLEMENTATION OF DMT BASED VDSL MODEMS](#)

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... The frequency spacing between two sub- carriers is fixed to **4.3125** kHz ... s 5 1024 44521

Cycles = 222  $\mu$ s 4 **2048** 42594 Cycles = 212  $\mu$ s 3 **4096** 39403 Cycles ...

[mti.xidian.edu.cn/multimedia/ 2002/supp/icassp2001/MAIN/papers/pap1032.pdf](#) - Supplemental Result - [Similar pages](#)

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... a seamless way **ADSL**, **ADSL-Lite** and **VDSL**. **VDSL** ... **4096**. 3. **2048**. 4 ...  $f = 4.3125$  kHz) is the same as in **AI**   
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... **ADSL** and **VDSL** technical ... to **2048** ... **4096** and the distance between carriers is **4.3125**. kHz. The noise and   
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7. **T1E1.4/2001-009 Part1** (PDF)    
... • **ADSL** uses 256 channels, Zipper **VDSL** uses **2048/4096**. channel (analog bandwidth up to ... Symbol length.   
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8. **xDSL xDSL in uvajanje in uvajanje š š irokopasovnega dostopa irokopasovnega dostopa** (PDF)   
... **ADSL** 2+, **READSL** 2. **RADSL** - Digitalni naročniški vod s prilagodljivo hitrostjo. **UADSL** (**CDSL**, **G.Lite**) - Univer   
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- ☐ 1. Method for configuring a xDSL modem and modem applying such procedure.  
**Del Toso, Christophe / Trang, Chan-Virak / STMicroelectronics S.A., EUROPEAN PATENT APPLICATION**, Nov 2004  
...modem est de **VDSL**. fonctionnant...portuses jusqu'à **4096** et pouvant...dans un mode **ADSL**. avec un nombre...d'un modem **VDSL** interopérable en mode **ADSL**. La figure **4** illustre un...qu'en mode **ADSL**, les portuses...régulièrement de **4.3125** kHz. Du fait...  
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- ☐ 2. VLSI design investigation for low-cost, low-power FFT/IFFT processing in advanced VDSL transceivers  
**Saponara, S. / Fanucci, L., Microelectronics Journal**, Feb 2003  
...frequency for **ADSL** and **VDSL** services. the spectral allocation for **VDSL** and **ADSL** services is shown...**4.4** 25 5 /20 **4 2048** 8.8 40 10 /30 3 **4096** 17.6 70 25 /45...for a scalable **VDSL** system [8] considering...spacing Delta f=**4.3125** kHz , a 26 American...  
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- ☐ 3. st\_efmc\_1101.PDF  
Nov 2001  
...of **ADSL**, **ADSL-Lite** and **VDSL** technologies...2 km 3 km **4** km 5 km 5...**VDSL ADSL ADSL-Lite** IEEE...working Group **4 VDSL** Standardization...Bandwidth (MHz) 2 **4096** 3 **2048** 4 1024 6 512...noise + 20 **VDSL** self-FEXT...interoperable with **ADSL** and **ADSL**...spacing (f= **4.3125** kHz) is the...  
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- ☐ 4. Multistandard DMT DSL transmission system  
**Mestdagh, Denis J.G. / Fargere, G&eacute;ard / Isaksson, Mikael R. / STMicroelectronics SA, EUROPEAN PATENT APPLICATION**, May 2000  
...spectrum of an **ADSL-Lite** transmission...conventional **VDSL** systems...uses either **2048** or **4096** tones spaced by **4.3125** KHz. By using...spaced by **4.3125** KHz, whereby...system, using **2048** tones or **4096** tones, is...128 or 256 (**ADSL-Lite**, **ADSL**...tones of the **VDSL-TDD** system...signatures. If an **ADSL** modem should...spacing of **4.3125** KHz. However...3125p KHz and **2048/p** or **4096/p** tones and...  
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- ☐ 5. MULTISTANDARD DMT DSL TRANSMISSION SYSTEM  
**MESTDAGH, Denis, J., G. / FARGERE, G&eacute; / rard / ISAKSSON, Mikael, R. / STMICROELECTRONICS S.A., PATENT COOPERATION TREATY APPLICATION**, Jun 2000  
...spectrum of an **ADSL**-Lite transmission...conventional **VDSL** systems...invention uses **4096** tones spaced by **4.3125** kHz, whereby...By using **2048** tones, the...For the **ADSL** standard...equal to **4**, and the...MHz. For a **VDSL** transmission with **2048** tones according...transmission with **4096** tones according...tones of the **VDSL**-TDD system...signatures. If an **ADSL** modem should...spacing of **4.3125** kHz. However...**3125** kHz and **4096/p** tones and...  
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- ☐ 6. BROADBAND NETWORK ACCESS DEVICE FOR VOICE AND DATA TRANSMISSION  
**PANIS, Christian / SCHRANZ, Christian / ZOJER, Herbert / PREITNEGGER, Manfred / INFINEON TECHNOLOGIES AG, PATENT COOPERATION TREATY APPLICATION**, Jan 2001  
...zweier Teiltr ger von **4,3125** kHz ergibt, was im...Datenbasistaktes von **4, 3125** kHz ist. Mit dieser...einem Vielfachen (**4096**-fach) des Datenbasistaktes von **4,3125** kHz abgetastet und...das ein Vielfaches (**2048**-fach) dieser Sprachgrundabtastfrequenz...  
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☐ **11. Adaptive power amplification for cable modems**
**Agah, Michael D. / Amati Communications Corporation, EUROPEAN PATENT APPLICATION, Oct 2000**

...particular details on an Asymmetric Digital Subscriber Line (**ADSL**) type modem can be found in American National Standards Institute...performance modem according to an embodiment of the invention FIG. 4 is a block diagram of a system power supply for a high performance...

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☐ **12. Data allocation in multicarrier communication systems**
**Chow, Jacky S. / TEXAS INSTRUMENTS INCORPORATED, EUROPEAN PATENT APPLICATION, Sep 2000**

...Subscriber Lines (**ADSL**). Another standard...Subscriber Lines (**VDSL**). The Alliance For...sub-channels" that are each **4.3125** kHz wide in the...256, 512, 1024 or **2048** sub-channels. The **ADSL** standard also defines...invention is useful for **VDSL** and **ADSL** data transmissions...

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☐ **13. MULTISTANDARD DMT DSL TRANSMISSION SYSTEM**
**MESTDAGH, Denis, J., G. / FARGERER, G. / ISAKSSON, Mikael, R. / STMICROELECTRONICS S.A., PATENT COOPERATION TREATY APPLICATION, Jun 2000**

...spectrum of an **ADSL**-Lite transmission...conventional **VDSL** systems...spaced by **4.3125** kHz, whereby...By using **2048** tones, the...For the **ADSL** standard...equal to **4**, and the...MHz. For a **VDSL** transmission with **2048** tones according...tones of the **VDSL**-TDD system...signatures. If an **ADSL** modem should...spacing of **4.3125** kHz. However...

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☐ **14. Multistandard DMT DSL transmission system**
**Mestdagh, Denis J.G. / Fargere, G. / Isaksson, Mikael R. / STMicroelectronics SA, EUROPEAN PATENT APPLICATION, May 2000**

...spectrum of an **ADSL**- Lite transmission...conventional **VDSL** systems...uses either **2048** or 4096 tones spaced by **4.3125** KHz. By using...For the **ADSL** standard...equal to **4**, and the...MHz. For a **VDSL** transmission with **2048** tones according...tones of the **VDSL**- TDD system...signatures. If an **ADSL** modem should...spacing of **4.3125** KHz.

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☐ **15. DIGITAL RADIO FREQUENCY INTERFERENCE CANCELLER**

**WIESE, Brian, R. / BINGHAM, John, A., C. / AMATI COMMUNICATIONS, Inc., EUROPEAN PATENT, Feb 1999**

...sub-channels" that are each **4.3125** kHz wide in the...256, 512, 1024 or **2048** sub-channels. The **ADSL** standard also defines...as available with **ADSL** and **VDSL**, is that radio interference...frequency in a typical **VDSL** application over...transmission lines FIG. 4 is a graph illustrating...

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☐ **16. RADIO FREQUENCY NOISE CANCELLER**

**CIOFFI, John, M. / MALLORY, Mark, P. / BINGHAM, John, A. / Amati Communications, Inc., EUROPEAN PATENT, Feb 1999**

...channels" that are each **4.3125** kHz wide in the forward...128, 256, 512, 1024 or **2048** sub-channels. The **ADSL** standard also defines...such as available with **ADSL** and **VDSL**, is that the radio interference...transmission, such as **VDSL** and **ADSL**, where radio-frequency...

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☐ **17. A telecommunications system for providing both narrowband and broadband services to subscribers**

**Czerwiec, Richard Marion / Sutherland, Joseph E. / Schepers, Peter Mathijs Leonard / Van Wonterghem, Geert Arthur Edith / Simmering, Marlin V. / Boeykens, Eduar Christian Maria / Van der Auwera, Chistiaan Elise Willem / Van Rompu, Peter Alain Richard / Pynaert, Kurt / Verly, Daniel Alois Cornelius, EUROPEAN PATENT APPLICATION, Jan 1999**

...transmission technologies, such as **ADSL** (Asymmetric Digital Subscriber...telephony spectrum (up to 3.4 kHz) over long distances...technologies have now made **ADSL** practical at multimegabit...technologies, including **ADSL**, **VDSL**, **HDSL**, **SDSL**, and **ISDN-BRA**...

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☐ **18. METHOD AND APPARATUS FOR SUPERFRAME BIT ALLOCATION**

**CHOW, Jacky, S. / BINGHAM, John, A., C. / AMATI COMMUNICATIONS CORPORATION, PATENT COOPERATION TREATY APPLICATION, Nov 1998**

...Subscriber Lines (**ADSL**). Another standard...Subscriber Lines (**VDSL**). The Alliance For...sub-channels" that are each **4.3125** kHz wide in the...256, 512, 1024 or **2048** sub-channels. The **ADSL** standard also defines...invention is useful for **VDSL** and **ADSL** data transmissions...

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☐ **19. TIME DIVISION DUPLEXED HIGH SPEED DATA TRANSMISSION SYSTEM AND METHOD**

**BINGHAM, John, A., C. / TONG, Po / Amati Communications Corporation, EUROPEAN PATENT, Apr 1998**

...rates under the **ADSL** standard are intended...that are each **4.3125** kHz wide in the...duplexing used in the **ADSL** standard is Frequency...referred to as the **VDSL** (Very High Digital...standard. The **VDSL** standard is intended...permitted using **ADSL**. Simultaneously...

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☐ **20. RADIO FREQUENCY NOISE CANCELLER**

**CIOFFI, John, M. / MALLORY, Mark, P. / BINGHAM, John, A. / AMATI COMMUNICATIONS CORPORATION, PATENT COOPERATION TREATY APPLICATION, Oct 1997**

...channels" that are each **4.3125** kHz wide in the forward...128, 256, 512, 1024 or



**2048** sub-channels. The **ADSL** standard also defines...such as available with **ADSL** and **VDSL**, is that the radio interference...transmission, such as **VDSL** and **ADSL**, where radio-frequency...

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- ☐ **21. MITIGATION OF RADIO FREQUENCY INTERFERENCE IN MULTI-CARRIER TRANSMISSION**  
**BINGHAM, John, A., C. / AMATI COMMUNICATIONS CORPORATION, PATENT COOPERATION TREATY APPLICATION**, Oct 1997

...rates under the **ADSL** standard are intended...that are each **4.3125** kHz wide in the...rates required by **VDL**/FTTC, the transmission...contemplated by the **ADSL**. By way of example...frequency in a typical **VDL** application over...transmission lines **4** Figures 7 is a...

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- ☐ **22. DIGITAL RADIO FREQUENCY INTERFERENCE CANCELLER**  
**WIESE, Brian, R. / BINGHAM, John, A., C. / AMATI COMMUNICATIONS CORPORATION, PATENT COOPERATION TREATY APPLICATION**, Oct 1997

...Transmission rates under the **ADSL** standard are intended...sub-channels" that are each **4.3125** kHz wide in the forward...128, 256, 512, 1024 or **2048** sub-channels. The **ADSL** standard also defines...such as available with **ADSL** and **VDL**, is that radio interference...

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- ☐ **23. TIME DIVISION DUPLEXED HIGH SPEED DATA TRANSMISSION SYSTEM AND METHOD**  
**BINGHAM, John, A., C. / TONG, Po / AMATI COMMUNICATIONS CORPORATION, PATENT COOPERATION TREATY APPLICATION**, Jan 1997

...rates under the **ADSL** standard are intended...that are each **4.3125** kHz wide in the...duplexing used in the **ADSL** standard is Frequency...referred to as the **VDL** (Very High Digital...standard. The **VDL** standard is intended...permitted using **ADSL**. Simultaneously...

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